nio EPA Permit to Install Information Form

ease describe below any documentation which is being submitted with this recommendation (must be sent the same day). ectronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing y hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and mber. Submit hard copy items to **Permitting**, DAPC, Central Office, and electronic files to airpti@epa.state.oh.us

Please fill out the following: If the heckbox does not work replace its with an X	Electronic	Additional information File Name Convention (your PTI # plus this letter)	<u>Hard</u> <u>Copy</u>	<u>None</u>
Calculations (required)	旦	000000c.wpd	Ø	
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PTI Application (complete or partial)*		0000000a.wpd	Ø	
3AT Study	п	0000000b.wpd	⊠	
Other/misc.		0000000t.wpd		

Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

ease complete (see comment bubble to the left for additional instructions):

NSR Discussion

ne original draft of this PTI and all supporting documentation were sent to DAPC/CO on 5/5/05. Due to issues with the odeling, the draft permit was never issued. After working with the company and its consultant over the last 21 months, is modeling issues have been resolved and SEDO recommends issuance of this PTI. The permit has been re-created in its current PTI format, and the MACT language that is no longer applicable (as of the 12/28/06 issuance date of the IACT avoidance PTI # 06-07603) has been removed and replaced with the facility-wide HAP restrictions. Although hysical modifications were only made to the cupola (EU P901) as indicated below, Clow has requested federally-nforceable operating restrictions and emissions limitations for the following emissions units to ensure compliance with scility-wide emission rates protective of the National Ambient Air Quality Standards (NAAQS): F007, F014, F015, F016, 002, K006, and P020.

this revised version, we have incorporated the changes made to Part II and Part III for EU F007 in the administrative nodification of PTI #06-07603 requested by Clow and sent to CO on XXIXXIXX. In addition, applicable BAT requirements ave been added to this PTI for emissions units K006 and P020 because it was discovered Clow installed or modified nose units after 1/74 without requesting or receiving a PTI.

'lease complete for these type permits (For PSD/NSR Permit, place mouse over this text):

Synthetic Minor Determination and/or □ Netting Determination

Permit To Install: "06-07432"

Source Description

Clow Water Systems Co. operates a facility which produces ductile iron water pipe in Coshocton, Ohio. Emission unit P901 consists of a 85 ton per hour grey iron Cupola furnace. Based on information requested by the Ohio EPA and submitted by Clow Water Systems Co., it has been determined that Clow Water Systems Co. modified emission unit P901 in 1989 and 1998 which increased the maximum hourly production rate of the cupola to its current rate of 85 tph. These modifications consisted of a physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of PM10, NOx and VOC and therefore triggered the need for a PSD PTI and air quality review for PM₁₀ and NOx. Additional limits have been established per OAC 3745-31-05(C) as needed to comply with ambient air quality standards or to avoid PSD review for other pollutants; e.g., natural gas use rate has been limited for EU P020 to avoid PSD modeling for CO.

Facility Emissions and Attainment Status

Clow Water Systems Co. is a major stationary source for PM and VOC emissions as defined in OAC rule 3745–31-01(KKK). Under section 107 of the Clean Air Act, the USEPA has classified the facility location in Coshocton,

Ohio (Coshocton County) as attainment for all criteria pollutants.

C. Source Emissions

Clow Water Systems Co. has requested that federally enforceable limits be established via OAC rule 3745-31-05(C) based on the production rate of 275,000 tpy for the cupola (P901). Additional operational restrictions and emissions limitations that were requested for emissions units F007, F014, F015, F016, K002, K006, and P020 are also being established in this permit.

D. Conclusion

Based upon the analysis of the permit to install application and the supporting documentation provided by Clow Water Systems Co., the Ohio EPA staff has determined that the modifications to the cupola will comply with all applicable State and Federal environmental regulations and that the requirements for BACT are satisfied. Therefore, Ohio EPA staff recommends that a permit to install be issued for the facility.

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY: NONE

Please complete:

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons Per Year
	34.42
PE	24.50
PM10	57.45
VOC	91.74
NOx	8.42
SO ₂	127.81
· CO .	•

ge 1 - Permit-specific terms

ow Water Systems Co

1 Application Number: 06-07432

art II - FACILITY SPECIFIC TERMS AND CONDITIONS

State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

Facility ID: 0616010006

State Only Enforceable Permit To Install Facility Specific Terms and Conditions None 3.

None

Facility ID: 0616010006 Emissions Unit ID: F007

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

1. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - F007 - Jolt shakeout vibrating table with baghouse; administrative modification to add federally-enforceable operating restrictions on throughput of fittings castings as requested by the permittee to ensure compliance with facility-wide emission rates protective of the National Ambient Air Quality Standards (NAAQS); supercedes PTI # 06-07603 issued on December 28, 2006 note this date will change w/ issuance of recently proposed admin mod (EU F007 only)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) from the baghouse stack serving emissions units F004, F007 and P007 shall not exceed 0.0075 gr/dscf (5.78 lb/hr).
· •	PE shall not exceed 0.38 lb/hr.
	Emissions of particulate matter less than 10 microns (PM ₁₀) shall not exceed 0.26 lb/hr.
•	Emissions of volatile organic compounds (VOC) shall not exceed 7.2 lbs/hr; 9.0 tons/ yr.
*	Emissions of carbon monoxide (CO) from F007 and F009, combined, shall not exceed 27.0 lbs/hr.
	Visible emissions of fugitive dust not captured by the side draft hood shall not exceed 5% opacity as a six minute average.
· · · · · · · · · · · · · · · · · · ·	No visible particulate emissions shall be emitted from the baghouse stack.
	The permittee shall implement best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.

ge 3 - Permit-specific terms

ow Water Systems Co

1 Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F007

pplicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
)AC rule 3745-31-05(C)	PE shall not exceed 0.48 ton as a rolling 12-month summation.
	PM ₁₀ emissions shall not exceed 0.34 ton as a rolling 12-month summation.
	Emissions of CO from F007 and F009, combined, shall not exceed 33.75 tons as a rolling 12-month summation.
)AC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
DAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
DAC rule 3745-17-07(B)	See A.I.2.a below.
DAC rule 3745-17-08 (B)	See A.I.2.a below.

2. Additional Terms and Conditions

2.a This facility is located in Coshocton County, which is not identified in Appendix A of OAC rule 3745-17-08. Therefore, the fugitive dust emissions from this emissions unit are exempt from the fugitive dust control requirements and visible emission limitation established in OAC rules 3745-17-08(B) and 3745-17-07(B), respectively.

Operational Restrictions

- The Jolt Line which includes Jolt Pouring and Cooling (F009), Jolt Shakeout (F007), and the Jolt Sand Plant (P007) shall be limited to the following production rates based on a rolling 12-month summation:
 - a. 175,000 tons sand; and
 - b. 15,000 tons metal.
- The maximum throughput of this emissions unit (F007) shall not exceed 10,000 tons of fittings castings per year, based on a rolling, 12-month summation.

J. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the side draft hood serving this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;

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Clow Water Systems Co

PTI Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F007

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

the total duration of any visible emission incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- 2. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the total throughput of sand (in tons) of this emissions unit;

b. the total throughput of metal (in tons) of this emissions unit;

- the rolling, 12-month summation of throughput, in tons of sand (i.e., the throughput for the current month added to the throughput for the previous 11 calendar months); and
- d. the rolling, 12-month summation of throughput, in tons of metal (i.e., the throughput for the current month added to the throughput for the previous 11 calendar months).
- 3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.
- 4. The permittee shall collect and record the following information each month for this emissions unit:

a. the total throughput of fittings castings (in tons) of this emissions unit;

 the rolling, 12-month summation of throughput of fittings castings, in tons (i.e., the throughput for the current month added to the throughput for the previous 11 calendar months).

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which

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w Water Systems Co

Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F007

any visible fugitive particulate emissions were observed from the side draft hood serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Ohio EPA, Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

- The permittee shall notify the Ohio EPA, Southeast District Office of any monthly record showing an exceedance of the rolling, 12-month throughput limitations specified in Sections A.II.1 and A.II.2. A copy of such record shall be sent to the Ohio EPA, Southeast District Office within 30 days following the end of the calendar month in which the exceedance occurs.
- 3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

These reports shall be submitted in accordance with Section A.2 of the General Terms and Conditions of this permit.

Testing Requirements

- Compliance with the emission limitations in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:
 - a. Emission Limitation:
 Particulate emissions (PE) from the baghouse stack serving emissions units F004, F007 and P007 shall not exceed 0.0075 gr/dscf (5.78 lb/hr).

Applicable Compliance Method:
Compliance shall be demonstrated based upon emissions testing in accordance with methods and procedures in Section A.V.2. If required, compliance with the combined particulate emissions limit shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

	00 Standards of the
a.	Emission Limitation: Emissions of carbon monoxide (CO) from F007 and F009, combined, shall not exceed 27.0 lbs/hr.
	Applicable Compliance Method: If required, carbon monoxide emissions shall be determined according to test Hethods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA,
	EPA-approved test methods may be used with prior spread of the Southeast District Office.

b. Emission Limitation:

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Clow Water Systems Co

PTI Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F007

PE shall not exceed 0.38 lb/hr.

PE shall not exceed 0.48 ton as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated using the following equations:

3.20 lb PE per ton of metal (based on emissions factor from FIRE 6.23 SCC 3-04-003-31)

maximum rate of 6 tons of metal per hour

limited to 15,000 tons of metal per year based on a rolling 12-month summation 99% capture efficiency (based on application information) 99% baghouse control efficiency

Stack Emissions

(3.20 lbs/ton) X (6 tons/hr) = 19.2 lbs/hr uncontrolled (19.2 lbs/hr) X (99% capture) X (99% control) = 0.19 lb/hr

 $(3.20 \text{ lbs/ton}) \times (15,000 \text{ tons/yr}) = 48,000 \text{ lbs/yr} \text{ uncontrolled}$ $(48,000 \text{ lb/yr}) \times (99\% \text{ capture}) \times (99\% \text{ control}) \times (0.0005 \text{ ton/lb}) = 0.24 \text{ ton/yr}$

Fugitive Emissions

 $(19.2 \text{ lbs/hr}) \times (1\% \text{ capture loss}) = 0.19 \text{ lb/hr}$ $(48,000 \text{ lb/yr}) \times (1\% \text{ capture loss}) \times (0.0005 \text{ ton/lb}) = 0.24 \text{ ton/yr}$

Total Emissions

0.19 lb/hr + 0.19 lb/hr = 0.38 lb/hr0.24 ton/yr + 0.24 ton/yr = 0.48 ton/yr

c. Emission Limitation:

Emissions of PM₁₀ shall not exceed 0.26 lb/hr.

PM₁₀ emissions shall not exceed 0.34 ton as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated using the following equations:

2.24 lb PM $_{10}$ per ton of metal (based on emissions factor from FIRE 6.23 SCC 3-04-003-31)

tons of metal per year limited to 15,000 based on a rolling 12-month summation maximum rate of 6 tons of metal per hour

99% capture efficiency (based on application information)

99% baghouse control efficiency

Stack Emissions

(2.24 lbs/ton) X (6 tons/hr) = 13.44 lbs/hr uncontrolled (13.4 lbs/hr) X (99% capture) X (99% control) = 0.13 lb/hr

 $(2.24 \text{ lbs/ton.}) \times (15,000 \text{ tons/yr}) = 33,600 \text{ lb/yr} \text{ uncontrolled}$ $(33,600 \text{ lb/yr}) \times (99\% \text{ capture}) \times (99\% \text{ control}) \times (0.0005 \text{ ton/lb}) = 0.17 \text{ ton/yr}$

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w Water Systems Co

I Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F007

Fugitive Emissions (13.4 lbs/hr) X (1% capture loss) = 0.13 lb/hr (33,600 lbs/yr) X (1% capture loss) X (0.0005 ton/lb) = 0.17 ton/yr

Total Emissions 0.13 lb/hr + 0.13 lb/hr = 0.26 lb/hr0.17 ton/yr + 0.17 ton/yr = 0.34 ton/yr

Emission Limitation: Emissions of VOC shall not exceed 7.2 lbs/hr; 9.0 tons/yr. d.

> Applicable Compliance Method: Compliance shall be demonstrated using the following equations:

1.20 lb VOC per ton of metal (based on emissions factor from FIRE 6.23 SCC 3-04-003-31)

maximum rate of 6 tons of metal per hour limited to 15,000 tons of metal per year based on a rolling 12-month summation uncontrolled

 $(1.20 \text{ lb/ton}) \times (6 \text{ tons/hr}) = 7.2 \text{ lb/hr}$ $(1.20 \text{ lb/ton}) \times (15,000 \text{ tons/yr}) \times (0.0005 \text{ lb/t}) = 9 \text{ tons/yr}$

e.

Emissions of CO from F007 and F009, combined, shall not exceed 27.0 lb/hr. **Emission Limitation:** Emissions of CO from F007 and F009, combined, shall not exceed 33.75 tons/yr as a rolling 12-month summation.

Applicable Compliance Method: Compliance shall be demonstrated using the following equations:

4.50 lb CO per ton of metal (based on stack testing of a similar unit) maximum rate of 6 tons of metal per hour; limited to 15,000 tons of metal per year based on a rolling 12-month summation uncontrolled

 $(4.50 \text{ lb/ton}) \ X \ (6 \text{ tons/hr}) = 27.0 \text{ lbs/hr}$ $(4.50 \text{ lb/ton}) \times (15,000 \text{ tons/yr}) \times (0.0005 \text{ ton/lb}) = 33.75 \text{ tons/yr}$ Emissions of carbon monoxide (CO) from F007 and F009, combined, shall not exceed 33.75 tons/yr.

Applicable Compliance Method: Compliance shall be demonstrated using the following equations:

4.50 lb CO per ton of metal (based on stack testing of a similar unit) maximum rate of 6 tons of metal per hour; limited to 15,000 tons of metal per year based on a rolling 12-month summation

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	uncontrolled
	– - (4.50 lb/ton) X (6 tons/hr) = 27.0 lbs/hr - (4.50 lb/ton) X (15,000 tons/yr) X (0.0005 ton/lb) = 33.75 tons/yr
f.	Emission Limitation: Visible emissions of fugitive dust not captured by the side draft hood shall not exceed 5% opacity as a six minute average.
	Applicable Compliance Method: If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".
g.	Emission Limitation: No visible particulate emissions shall be emitted from the baghouse stack.
	Applicable Compliance Method: If required, visible particulate emissions shall be determined according to test Method 22 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.
h.	— Emission Limitation: — PE from the baghouse stack serving emissions units F004, F007 and P007 shall not exceed 0.0075 gr/dscf (5.78 lb/hr).
	Applicable Compliance Method: If required, particulate emissions shall be determined according to test Methods 1- 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

VI. Miscellaneous Requirements

Particulate emissions testing as required by PTI # 06-07603, issued on December 28, 2006, was completed on April 17, 2007. None

Facility ID: 0616010006 Emissions Unit ID: F007

State Only Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

perations, Property, and/or Equipment - F007 - Jolt shakeout vibrating table with baghouse; dministrative modification to add federally-enforceable operating restrictions on throughput of titings castings as requested by the permittee to ensure compliance with facility-wide emission ates protective of the National Ambient Air Quality Standards (NAAQS); supercedes PTI # 06-ates protective on December 28, 2006 note this date will change w/ issuance of recently proposed admin mod (EU F007 only)

dmin mod (EU F007 only)	11 this malControl Measures
Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

- Additional Terms and Conditions
 None
- II. Operational Restrictions
 None
- III. Monitoring and/or Recordkeeping Requirements
 None
- IV. Reporting Requirements
 None
- V. Testing Requirements
 None
- VI. Miscellaneous Requirements
 - 1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

Clow Water Systems Co

PTI Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F014

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

State and Federally Enforceable Section A.

Applicable Emissions Limitations and/or Control Requirements ١.

The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with 1. the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - F014 - Isocure core machine (Laempe) with baghouse and wet scrubber; administrative modification to include a federally-enforceable emissions limitation on PM₁₀ that was requested by the permittee to ensure compliance with facility-wide emission rates protective of the National Ambient Air Quality Standards (NAAQS); supersedes

PTI # 06-05183 issued on December 29, 1999 (EU F014 only)

Applicable Rules/Requirements	ember 29, 1999 (EU F014 only) Applicable Emissions Limitations/Control Measures
DAC rule 3745-31-05(C)	PM ₁₀ emissions from the baghouse stack shall not exceed 0.030 gr/dscf.
	VOC emissions shall not exceed 9.75 tons as a rolling, 12-month summation.
OAC rule 3745-31-05(A)(3)	PE from the baghouse stack shall not exceed 0.030 gr/dscf (0.46 lb/hr) or there shall be no visible particulate emissions from this stack, whichever is less stringent.
• .	PE from the baghouse stack shall not exceed 2.03 tpy.
	VOC emissions shall not exceed 3.25 lbs/hr.
	VOC emissions shall not exceed 9.75 tpy.
OAC rule 3745-21-07 (G)	See A.I.2.a below.
OAC rule 3745-17-11(B)(1)	The emission limitation established by this applicable rule is less stringent than the emission limitation established pursuant to the best available technology requirements specified in OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)	The emission limitation established by this applicable rule is less stringent than the emission limitation established pursuant to the best available technology requirements specified in OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07 (B)	See A.I.2.b below.
OAC rule 3745-17-08 (B)	See A.I.2.b below.

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ow Water Systems Co

Il Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F014

2. Additional Terms and Conditions

- 2.a This emissions unit is exempt from the requirements of OAC rule 3745-21-07(G) pursuant to OAC rule 3745-21-07(G)(9)(i) [the use of a phenolic urethane no-bake resin binder system in foundry core-making and mold-making operations]. This exemption was adopted by the Director of Ohio EPA and became effective June 15, 1999. The US EPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of US EPA approval of this rule as revision to the Ohio SIP for ozone.
- 2.b This facility is not located in an area identified in Appendix A of OAC rule 3745-17-08. Therefore, the fugitive dust emissions are exempt from the visible particulate emission limitation and the reasonably available control measures established in OAC rule 3745-17-07 (B) and OAC rule 3745-17-08 (B), respectively.

Operational Restrictions

None

I. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to eliminate the visible emissions.
- The permittee shall maintain monthly records of the following information:
 - a. the tons of sand used;
 - b. the total volatile organic compound emissions, in tons, calculated by multiplying the tons of sand used by 0.65 pound of volatile organic compound/ton of sand; and
 - c. the rolling, 12-month summation of volatile organic compounds emissions, in tons.

V. Reporting Requirements

- 1. The permittee shall notify the Ohio EPA, Southeast District Office of any monthly record showing an exceedance of the rolling, 12 month emission limitation for volatile organic compound specified in section A.I.1. A copy of such record shall be sent to the Ohio EPA, Southeast District Office within 30 days following the end of the calendar month in which the exceedance occurs.
- The permittee shall also submit annual reports which specify the total volatile organic compound emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

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low Water Systems Co

TI Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F014

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month periods.

Testing Requirements

- 1. Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

PM₁₀ emissions from the baghouse stack shall not exceed 0.030 gr/dscf.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- i. the emission testing shall be conducted within 3 months after issuance of the permit.
- ii. the emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PM₁₀.
- the following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

 PM_{10} emissions shall be determined according to 40 CFR Part 51, Appendix M, Method 201, or 40 CFR Part 51, Appendix M, 201A as appropriate.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- iv. the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
- v. not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- vi. personnel from the appropriate Ohio EPA District Office or local air agency

Facility ID: 0616010006 Emissions Unit ID: F014

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shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

a comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days vii. following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

b.

VOC emissions shall not exceed 9.75 tons as a rolling, 12-month summation.

Compliance with the allowable volatile organic compound emission rate of 9.75 Applicable Compliance Method: tons, based upon a rolling, 12-month summation, shall be determined by a monthly calculation of the pounds volatile organic compound per ton of sand emission factor multiplied by the tons of sand used, and divided by 2000 pounds per ton; added to the previous 11 months emissions in tons volatile organic compound, in accordance with the monitoring and recordkeeping requirements contained in this permit.

C.

PE from the baghouse stack shall not exceed 0.030 gr/dscf (0.46 lb/hr) or there Emission Limitation: shall be no visible particulate emissions from this stack, whichever is less stringent.

If required, particulate emissions shall be determined according to test Methods 1 -5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" or, if required, compliance with the no visible particulate emissions requirement shall be determined in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Method 22.

Emission Limitation: d.

PE from the baghouse stack shall not exceed 2.03 tpy.

Compliance with the PE emission rate of 2.03 tons shall be determined by the one-Applicable Compliance Method: time calculation of the maximum tons of sand processed in this emission unit per year, 30,000 tons, multiplied by the particulate emission factor of 0.65 lb of PE/ton of sand, assuming 99% capture efficiency and 99% baghouse control efficiency, divided by 2000 pounds per ton (based on application information).

Emission Limitation: e.

VOC emissions shall not exceed 3.25 lbs/hr.

Applicable Compliance Method:

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Compliance with the volatile organic compound emission rate of 3.25 lbs/hr shall be determined by the one-time calculation of the maximum tons of sand processed in this emission unit per hour, 5 tons/hour, as provided in the permittee's application, multiplied by the volatile organic compound emission factor of 0.65 lb of volatile organic compound/ton of sand.

f. Emission Limitation: VOC emissions shall not exceed 9.75 tpy.

Applicable Compliance Method:

Compliance with the allowable volatile organic compound emission rate of 9.75 tons per year shall be determined by an annual summation of the monthly calculations of the pounds volatile organic compound per ton of sand emission factor multiplied by the tons of sand used, and divided by 2000 pounds per ton in accordance with the monitoring and recordkeeping requirements contained in this permit.

VI. Miscellaneous Requirements

None

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Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F014

State Only Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

The specific operations(s), property, and/or equipment which constitute this emissions unit 1. are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

erations, Property, and/or Equipment - F014 - Isocure core machine (Laempe) with baghouse d wet scrubber; administrative modification to include a federally-enforceable emissions nitation on PM₁₀ that was requested by the permittee to ensure compliance with facility-wide nission rates protective of the National Ambient Air Quality Standards (NAAQS); supersedes 7 # 06-05183 issued on December 29, 1999 (EU F014 only)

pplicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
lone	None

Additional Terms and Conditions 2. None 2.a

Operational Restrictions None

- Monitoring and/or Recordkeeping Requirements None
- Reporting Requirements None
- **Testing Requirements** None
- Miscellaneous Requirements 1. None

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low Water Systems Co

TI Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F015

art III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

State and Federally Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

perations, Property, and/or Equipment - F015 - Foundry shotblast with baghouse; this unit was a stalled in 1972 so an installation permit was not required; however, the permittee has requested ederally-enforceable operating restrictions on throughput of fittings castings and emissions imitations on PM_{10} for this unit to ensure compliance with facility-wide emission rates protective of the National Ambient Air Quality Standards (NAAQS)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C)	PM_{10} emissions from the baghouse stack shall not exceed 0.020 gr/dscf.
	See A.II.1 below.
OAC rule 3745-17-07(B)	See A.I.2.a below.
OAC rule 3745-17-08(B)	See A.I.2.a below.

2. Additional Terms and Conditions

2.a This facility is not located in an area identified in Appendix A of OAC rule 3745-17-08. Therefore, the fugitive dust emissions are exempt from the visible particulate emission limitation and the reasonably available control measures established in OAC rule 3745-17-07 (B) and OAC rule 3745-17-08 (B), respectively.

1. Operational Restrictions

1. The maximum throughput of this emissions unit shall not exceed 31,000 tons of fittings castings, based on a rolling 12-month summation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the total throughput of fittings castings (in tons) of this emissions unit;
 - b. the rolling, 12-month summation of throughput of fittings castings, in tons (i.e., the throughput for the current month added to the throughput for the previous 11 calendar months).

Facility ID: 0616010006 Emissions Unit ID: F015

Reporting Requirements

The permittee shall notify the Ohio EPA, Southeast District Office of any monthly record showing an exceedance of the rolling, 12-month throughput limitations specified in section 1. A.II.1. A copy of such record shall be sent to the Ohio EPA, Southeast District Office within 30 days following the end of the calendar month in which the exceedance occurs.

Testing Requirements

- Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods: 1.
 - Emission Limitation: PM₁₀ emissions from the baghouse stack shall not exceed 0.020 gr/dscf. a.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- the emission testing shall be conducted within 3 months after issuance of the ١. permit.
- the emission testing shall be conducted to demonstrate compliance with the ii. allowable mass emission rates for PM₁₀.
- the following test method(s) shall be employed to demonstrate compliance iii. with the allowable mass emission rate(s):

PM₁₀ emissions shall be determined according to 40 CFR Part 51, Appendix M, Method 201, or 40 CFR Part 51, Appendix M, 201A as appropriate.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the iv. appropriate Ohio EPA District Office or local air agency.
- not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District ٧. Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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PTI Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F015

vi. personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

vii. a comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

VI. Miscellaneous Requirements

None

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Facility ID: 0616010006 Emissions Unit ID: F015

State Only Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

perations, Property, and/or Equipment - F015 - Foundry shotblast with baghouse; this unit was stalled in 1972 so an installation permit was not required; however, the permittee has requested in the derally-enforceable operating restrictions on throughput of fittings castings and emissions mitations on PM_{10} for this unit to ensure compliance with facility-wide emission rates protective f the National Ambient Air Quality Standards (NAAQS)

f the National Ambient Air Q	dality Standards (1971-1997)
Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
Applicable Rules/Requirements/	
None	None

- Additional Terms and Conditions
 None
- Operational Restrictions
 None
- II. Monitoring and/or Recordkeeping Requirements
 None
- V. Reporting Requirements
 None
- V. Testing Requirements
 None
- VI. Miscellaneous Requirements
 None

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TI Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: F016

art III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

State and Federally Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - F016 - BMM Shakeout with baghouse; this unit was notalled in 1972 so an installation permit was not required; however, the permittee has requested ederally-enforceable operating restrictions on throughput of fittings castings and emissions imitations on PM_{10} for this unit to ensure compliance with facility-wide emission rates protective

of the National Ambient Air Quality Standards (NAAQS)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(C)	PM ₁₀ emissions from the baghouse stack shall not exceed 0.0075 gr/dscf.
	See A.II.1 below.
OAC rule 3745-17-07(B)	See A.I.2.a below.
OAC rule 3745-17-08(B)	See A.I.2.a below.

2. Additional Terms and Conditions

2.a This facility is not located in an area identified in Appendix A of OAC rule 3745-17-08. Therefore, the fugitive dust emissions are exempt from the visible particulate emission limitation and the reasonably available control measures established in OAC rule 3745-17-07 (B) and OAC rule 3745-17-08 (B), respectively.

II. Operational Restrictions

 The maximum throughput of this emissions unit shall not exceed 20,000 tons of fittings castings, based on a rolling 12-month summation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall collect and record the following information each month for this emissions unit:
 - a. the total throughput of fittings castings (in tons) of this emissions unit;
 - b. the rolling, 12-month summation of throughput of fittings castings, in tons (i.e., the throughput for the current month added to the throughput for the previous 11 calendar months).

Reporting Requirements

The permittee shall notify the Ohio EPA, Southeast District Office of any monthly record showing an exceedance of the rolling, 12-month throughput limitations specified in Sections A.II.1. A copy of such record shall be sent to the Ohio EPA, Southeast District 1. Office within 30 days following the end of the calendar month in which the exceedance occurs.

Testing Requirements

- Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods: 1.
 - PM₁₀ emissions from the baghouse stack shall not exceed 0.0075 gr/dscf. a.

The permittee shall conduct, or have conducted, emission testing for this emissions Applicable Compliance Method unit in accordance with the following requirements:

- the emission testing shall be conducted within 3 months after issuance of the i. permit.
- the emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PM₁₀. ii.
- the following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): iii.

PM₁₀ emissions shall be determined according to 40 CFR Part 51, Appendix M, Method 201, or 40 CFR Part 51, Appendix M, 201A as appropriate.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the iv. appropriate Ohio EPA District Office or local air agency.
- not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in ٧. detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

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Facility ID: 0616010006 Emissions Unit ID: F016

vi. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

vii. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

VI. Miscellaneous Requirements

None

Facility ID: 0616010006 Emissions Unit ID: F016

State Only Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

perations, Property, and/or Equipment - F016 - BMM Shakeout with baghouse; this unit was stalled in 1972 so an installation permit was not required; however, the permittee has requested addrastly-enforceable operating restrictions on throughput of fittings castings and emissions mitations on PM_{10} for this unit to ensure compliance with facility-wide emission rates protective M_{10} the National Ambient Air Quality Standards (NAAQS)

f the National Ambient Air Quality Standards (1995)		
Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures	
None	None	

- Additional Terms and Conditions
 2.a None
- Operational Restrictions None
- II. Monitoring and/or Recordkeeping Requirements
 None
- V. Reporting Requirements
 None
- V. Testing Requirements
 None
- VI. Miscellaneous Requirements
 None

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TI Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: K002

art III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

State and Federally Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - K002 - Fittings painting operation; this unit was notalled in 1965 so an installation permit was not required; however, the permittee has requested ederally-enforceable emissions limitations on PM_{10} for this unit to ensure compliance with acility-wide emission rates protective of the National Ambient Air Quality Standards (NAAQS)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures	
OAC rule 3745-31-05(C)	PM ₁₀ emissions from the stack shall not exceed 0.74 ton based on a rolling 12-month summation.	
OAC rule 3745-21-09(U)(1)(d)	Volatile compound emissions per gallon of coating shall not exceed 3.5 pounds, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit.	
OAC rule 3745-17-07(A)	Visible particulate emissions from the stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.	
OAC rule 3745-17-11(B)(1)	PE from the stack shall not exceed 0.551 lb/hr (from Table I).	

2. Additional Terms and Conditions

2.a None.

II. Operational Restrictions

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.
- 2. The permittee shall collect and record the following information each month for the coating line:
 - a. The name and identification number of each coating employed;

- the solids content, in pounds per gallon, of each coating employed; b.
- the VOC content of each coating (excluding water and exempt solvents), in pounds C. per gallon as applied;
- the total volume, in gallons, of each coating employed. d.
- the total solids usage [the sum of (b. times d.) for all coatings], in tons; and e.
- the updated, rolling 12-month summation for PM₁₀ emissions, calculated according f. to the equation in V.1.a.

Reporting Requirements V.

- The permittee shall notify the Ohio EPA Southeast District Office in writing of any daily record showing that the dry filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to 1 the Ohio EPA Southeast District Office within 30 days after the event occurs.
- The permittee shall notify the Ohio EPA Southeast District Office in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Ohio EPA Southeast District Office within 30 days 2. following the end of the calendar month in which the exceedance occurs.
- The permittee shall notify the Ohio EPA Southeast District Office in writing of any monthly record showing an exceedance of the rolling, 12 month emission limitation for PM₁₀ specified in section A.I.1. A copy of such record shall be sent to the Ohio EPA, Southeast 3. District Office within 30 days following the end of the calendar month in which the exceedance occurs.

Testing Requirements V.

- Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods: 1.
 - PM₁₀ emissions from the stack shall not exceed 0.74 ton based on a rolling 12a. month summation.

Compliance with the rolling, 12-month emissions limit shall be determined in accordance with the following method:

E = (M) * (1-TE) * (1-CE)

where:

 $E = PM_{10}$ emission rate (tons per month), M = total coating solids usage rate (tons per month),

Facility ID: 0616010006 Emissions Unit ID: K002

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.50 per application).

CE = control efficiency of the control equipment (0.90 for panel filters).

Compliance with the rolling, 12-month emission limit shall be determined by adding the current month to the previous 11 calendar months totals.

Emission Limitation: b.

Volatile compound emissions per gallon of coating shall not exceed 3.5 pounds, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the volatile compound contents of the coatings.

Emission Limitation: C.

Visible particulate emissions from the stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, compliance shall be determined by Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").

Emission Limitation: d.

Particulate emissions from the stack shall not exceed 0.551 lb/hr(from Table I).

Applicable Compliance Method:

Compliance with the particulate emission limit shall be determined in accordance with the following method:

$$E = (M) * (1-TE) * (1-CE)$$

where:

E = particulate emission rate (in pounds per hour),

M = total coating solids usage rate (in pounds per hour),

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.50 per application).

CE = control efficiency of the control equipment (0.90 for panel filters).

If required, particulate emissions shall be determined according to test Methods 1 -5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

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Miscellaneous Requirements

None

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Facility ID: 0616010006 Emissions Unit ID: K002

State Only Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

)perations, Property, and/or Equipment - K002 - Fittings painting operation; this unit was a stalled in 1965 so an installation permit was not required; however, the permittee has requested ederally-enforceable emissions limitations on PM_{10} for this unit to ensure compliance with acility-wide emission rates protective of the National Ambient Air Quality Standards (NAAQS)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures	
None	None	d land betred man

- 2. Additional Terms and Conditions
 - 2.a None
- l. Operational Restrictions
 None
- II. Monitoring and/or Recordkeeping Requirements
 None
- V. Reporting Requirements
 Noné
- /. Testing Requirements
 None
- /I. Miscellaneous Requirements
 None

Facility ID: 0616010006 Emissions Unit ID: K006

t III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

State and Federally Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with 1. the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

perations, Property, and/or Equipment - K006 - Pipe painting operation; this unit was installed 1983 without an installation permit so this permit imposes BAT limits as well as the federallynforceable emissions limitations on PM₁₀ requested by the permittee to ensure compliance with cility-wide emission rates protective of the National Ambient Air Quality Standards (NAAQS)

cility-wide emission rates pro	Applicable Emissions Limitations/Control Measures	
Applicable Rules/Requirements DAC rule 3745-31-05(C)	PM ₁₀ emissions from the stack shall not an a rolling 12-month summation.	
OAC rule 3745-31-05(A)(1)	Particulate emissions (PE) from the stack shall not exceed 0.79 pound per hour; 1.28 tons per year.	
	No visible particulate emissions shall be emitted from the stack serving this emissions unit.	
	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U)(1)(d).	
OAC rule 3745-21-09(U)(1)(d)	Volatile compound emissions per gallon of coating shall not exceed 3.5 pounds, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees	
OAC rule 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule	
OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).	

Additional Terms and Conditions 2.

2.a None

Operational Restrictions 11.

The permittee shall operate the dry filtration system whenever this emissions unit is in 1.

Facility ID: 0616010006 Emissions Unit ID: K006

operation.

Monitoring and/or Recordkeeping Requirements 111.

- The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation. 1.
- The permittee shall collect and record the following information each month for the coating 2. line:
 - The name and identification number of each coating employed; a.
 - the solids content, in pounds per gallon, of each coating employed; b.
 - the VOC content of each coating (excluding water and exempt solvents), as applied; C.
 - the total volume, in gallons, of each coating employed. d.
 - the total solids usage [the sum of (b. times d.) for all coatings], in tons; and e.
 - the updated, rolling 12-month summation for PM10 emissions, calculated according f. to the equation in V.1.a.

Reporting Requirements IV.

- The permittee shall notify the Ohio EPA Southeast District Office in writing of any daily record showing that the dry filtration system was not in service when the emissions unit 1. was in operation. The notification shall include a copy of such record and shall be sent to the Ohio EPA Southeast District Office within 30 days after the event occurs.
- The permittee shall notify the Ohio EPA Southeast District Office in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Ohio EPA Southeast District Office within 30 days 2. following the end of the calendar month in which the exceedance occurs.
- The permittee shall notify the Ohio EPA Southeast District Office in writing of any monthly record showing an exceedance of the rolling, 12 month emission limitation for PM₁₀ specified in section A.I.1. A copy of such record shall be sent to the Ohio EPA, Southeast 3. District Office within 30 days following the end of the calendar month in which the exceedance occurs.

Testing Requirements ٧.

- Compliance with the emission limitations in section A.I.1 of these terms and conditions shall be determined in accordance with the following methods: 1.
 - PM_{10} emissions from the stack shall not exceed 1.28 tons per year based on a Emission Limitation: a. rolling 12-month summation.

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Applicable Compliance Method: Compliance with the rolling, 12-month emissions limit shall be determined in accordance with the following method:

$$E = (M) * (1-TE) * (1-CE)$$

where:

 $E = PM_{10}$ emission rate (tons per month),

M = total coating solids usage rate (tons per month),

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.50 per application),

CE = control efficiency of the control equipment (0.90 for panel filters).

Compliance with the rolling, 12-month emission limit shall be determined by adding the current month to the previous 11 calendar months totals.

PE from the stack shall not exceed 0.79 pound per hour, 1.28 tons per year b.

Applicable Compliance Method: Compliance with the hourly PE rate of 0.72 pound per hour shall be determined in accordance with the following method:

$$E = (M) * (1-TE) * (1-CE)$$

Where:

 $E = PE/PM_{10}$ emission rate (in pounds per hour),

M = total coating solids usage rate (in pounds per hour),

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.50 per application).

CE = control efficiency of the control equipment (0.90 for panel filters).

If required, particulate emissions shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Compliance with the tons per year emissions limitation for PE shall be determined in accordance with the following method:

$$E = (M) * (1-TE) * (1-CE)$$

Where:

E = PE rate (tons per month),

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M = total coating solids usage rate (tons per month),

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.50 per application),

CE = control efficiency of the control equipment (0.90 for panel filters).

c. Emission Limitation:

No visible particulate emissions shall be emitted from the stack serving this emissions unit.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to test Method 22 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

b.d. Emission Limitation:

Volatile compound emissions per gallon of coating shall not exceed 3.5 pounds, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements specified in section A.III.2. Formulation data or USEPA Method 24 shall be used to determine the volatile compound contents of the coatings.

c. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, compliance shall be determined by Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"):

VI. Miscellaneous Requirements

None

Facility ID: 0616010006 Emissions Unit ID: K006

State Only Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

perations, Property, and/or Equipment - K006 - Pipe painting operation; this unit was installed 1983 without an installation permit so this permit imposes BAT limits as well as the federally-inforceable emissions limitations on PM₁₀ requested by the permittee to ensure compliance with cility-wide emission rates protective of the National Ambient Air Quality Standards (NAAQS)

applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures	
CAPACITY CONTRACTOR OF THE PROPERTY OF THE PRO		T 1882
lone	None	

Additional Terms and Conditions
 None

Operational Restrictions
None

- Monitoring and/or Recordkeeping Requirements None
- /. Reporting Requirements
 None
- . Testing Requirements
 None
- Miscellaneous Requirements None

Facility ID: 0616010006 Emissions Unit ID: P020

art III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

State and Federally Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

The specific operations(s), property, and/or equipment which constitute this emissions unit 1. are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - P020 - Annealing oven fired with natural gas; this unit was installed in 1977 without an installation permit so this permit imposes BAT limits as well as the federally-enforceable operating restrictions on natural gas usage that the permittee has requested to ensure compliance with facility-wide emission rates protective of the National

Ambient Air Quality Standards (NAAQS)

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures	
OAC rule 3745-31-05(C)	See A.II.1 below.	
OAC rule 3745-31-05(A)(1)	Particulate emissions (PE) shall not exceed 0.72 pound per hour; 2.17 tons per year. Sulfur dioxide (SO ₂) emissions shall not exceed 0.057 pound	
	per hour; 0.17 ton per year.	
	Carbon monoxide (CO) emissions shall not exceed 7.98 pounds per hour; 23.93 tons per year.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volatile organic compounds (VOC) emissions shall not exceed 0.52 pound per hour; 1.57 tons per year.	
· · · · · · · · · · · · · · · · · · ·	Nitrogen oxides (NO _x) emissions shall not exceed 9.50 pounds per hour; 28.49 tons per year.	
	No visible particulate emissions shall be emitted from the stack serving this emissions unit.	
OAC rule 3745-17-11	See A.I.2.a below.	
OAC rule 3745-17-07	See A.1.2.b below.	

Additional Terms and Conditions 2.

The uncontrolled mass rate of emissions (UMRE) for particulate matter from this 2.a emissions unit is less than 10 pounds per hour because the metal pipe charged does not emit particulates. The only source of particulate emissions from this natural gas-fired annealing furnace is from the combustion of natural gas.

Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii) and OAC rule 37.45-17-11(A)(4), Figure II and Table I, respectively, do not apply to this emissions unit.

Since the mass rate of emissions for particulates in OAC rule 3745-17-11 is not applicable, the opacity limits in OAC rule 3745-17-07 are also not applicable. 2.b

Operational Restrictions 11.

- The maximum natural gas usage shall not exceed 569,760,000 cubic feet (cf) based on 1. a rolling 12-month summation.
- The permittee shall burn only natural gas in this emissions unit. 2.

Monitoring and/or Recordkeeping Requirements III.

- The permittee shall collect and record the following information each month for this 1. emissions unit:
 - a.
 - the updated 12-month summation of natural gas usage, in cf, calculated by adding the usage information for the current month and the preceding 11 calender months. b.
 - For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this 2. emissions unit.

Reporting Requirements IV.

- The permittee shall notify the Ohio EPA Southeast District Office in writing of any monthly record showing an exceedance of the rolling 12-month natural gas usage limit. The notification shall include a copy of such record and shall be sent to the Ohio EPA 1. Southeast District Office within 30 days following the end of the calendar month in which the exceedance occurs.
- The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall 2. be submitted within 30 days after the deviation occurs.

Testing Requirements V.

- Compliance with the emission limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods: 1.
 - Emission Limitation: PE shall not exceed 0.72 pound per hour; 2.17 tons per year.

Compliance with the hourly PE rate of 0.72 pound per hour shall be Applicable Compliance Method: and the second of the second Page 36 - Permit-specific terms

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Facility ID: 0616010006 Emissions Unit ID: P020

determined by the one-time calculation of the maximum hourly heat input rate of this unit, 94.96 million Btu/hr, as provided in the permittee's application, multiplied by the PE factor of 7.6 lbs of PE per million scf of natural gas in AP-42 Section 1.4 Table 1.4-2 (7/1998), multiplied by 1 scf of natural gas/1000 Btu.

Compliance with the tons per year emission limitation for PE shall be demonstrated by multiplying the PE factor of 7.6 lbs of PE per million scf of natural gas in AP-42 Section 1.4 Table 1.4-2 (7/1998), by the actual annual fuel usage in scf, by 1 million scf/1,000,000 cf, then dividing by 2000 lbs/ton.

If required, compliance shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources", or 40 CFR Part 51, Appendix M, Method 201, or 40 CFR Part 51, Appendix M, 201A as appropriate.

Emission Limitation: b. SO_2 emissions shall not exceed 0.057 pound per hour; 0.17 ton per year.

Applicable Compliance Method:

Compliance with the hourly SO₂ emission rate of 0.057 pound per hour shall be determined by the one-time calculation of the maximum hourly heat input rate of this unit, 94.96 MMBtu/hr, as provided in the permittee's application, multiplied by the SO₂ emission factor of 0.6 lb of SO₂ per mmscf of natural gas in AP-42 Section 1.4 Table 1.4-2 (7/1998), multiplied by 1 scf of natural gas/1000 Btu.

Compliance with the tons per year emission limitation for SO2 shall be demonstrated by multiplying the SO₂ emission factor of 0.6 lb of SO₂ per mmscf of natural gas in AP-42 Section 1.4 Table 1.4-2 (7/1998), by the actual annual fuel usage in scf, by 1 mmscf/1,000,000 cf, then dividing by 2000 lbs/ton.

If required, compliance shall be determined according to test Methods 1 - 4, and 6 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

Emission Limitation: C. CO emissions shall not exceed 7.98 pounds per hour; 23.93 tons per year.

Applicable Compliance Method:

Compliance with the hourly CO emission rate of 7.98 pounds per hour shall be determined by the one-time calculation of the maximum hourly heat input rate of this unit, 94.96 MMBtu/hr, as provided in the permittee's application, multiplied by the CO emission factor of 84 lbs of CO per mmscf of natural gas in AP-42 Section 1.4 Table 1.4-1 (7/1998), multiplied by 1 scf of natural gas/1000 Btu.

Compliance with the tons per year emission limitation for CO shall be demonstrated by multiplying the CO emission factor of 84 lbs of CO per mmscf of natural gas in AP-42 Section 1.4 Table 1.4-1 (7/1998), by the actual annual fuel usage in scf, by 1 mmscf/1,000,000 cf, then dividing by 2000 lbs/ton.

If required, compliance shall be determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

d. Emission Limitation:
 VOC emissions shall not exceed 0.52 pound per hour; 1.57 tons per year.

Applicable Compliance Method: Compliance with the hourly VOC emission rate of 0.52 pound per hour shall be determined by the one-time calculation of the maximum hourly heat input rate of this unit, 94.96 MMBtu/hr, as provided in the permittee's application, multiplied by the VOC emission factor of 5.5 lbs of VOC per mmscf of natural gas in AP-42 Section 1.4 Table 1.4-2 (7/1998), multiplied by 1 scf of natural gas/1000 Btu.

Compliance with the tons per year emission limitation for VOC shall be demonstrated by multiplying the VOC emission factor of 5.5 lbs of VOC per mmscf of natural gas in AP-42 Section 1.4 Table 1.4-2 (7/1998), by the actual annual fuel usage in scf, by 1 mmscf/1,000,000 cf, then dividing by 2000 lbs/ton.

If required, compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10(C) or an approved test protocol. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentrations, and on a consideration of the potential presence of interfering gases.

e. Emission Limitation: NO $_{\rm x}$ emissions shall not exceed 9.50 pounds per hour; 28.49 tons per year.

Applicable Compliance Method: Compliance with the hourly NO_x emission rate of 9.50 pounds per hour shall be determined by the one-time calculation of the maximum hourly heat input rate of this unit, 94.96 MMBtu/hr, as provided in the permittee's application, multiplied by the NO_x emission factor of 100 lbs of NO_x per mmscf of natural gas in AP-42 Section 1.4 Table 1.4-1 (7/1998), multiplied by 1 scf of natural gas/1000 Btu.

Compliance with the tons per year emission limitation for NO_x shall be demonstrated by multiplying the NO_x emission factor of 100 lbs of NO_x per mmscf of natural gas in AP-42 Section 1.4 Table 1.4-1 (7/1998), by the actual

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annual fuel usage in scf, by 1 mmscf/1,000,000 cf, then dividing by 2000 lbs/ton.

If required, compliance shall be determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

f. Emission Limitation:
No visible particulate emissions shall be emitted from the stack serving this emissions unit.

Applicable Compliance Method: If required, visible particulate emissions shall be determined according to test Method 22 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources".

None

VI. Miscellaneous Requirements

None

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State Only Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit 1. shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - P020 - Annealing oven fired with natural gas; this unit was installed in 1977 without an installation permit so this permit imposes BAT limits as well as the federally-enforceable operating restrictions on natural gas usage that the permittee has requested to ensure compliance with facility-wide emission rates protective of the National

Ambient Air Quality Standards (NAAQS) Applicable Emissions Limitations/Control Measures Applicable Rules/Requirements None None

- Additional Terms and Conditions 2. None 2.a
- **Operational Restrictions** 11. None
- Monitoring and/or Recordkeeping Requirements 111. None
- Reporting Requirements IV. None
- **Testing Requirements** V. None
- Miscellaneous Requirements VI. None

Facility ID: 0616010006 Emissions Unit ID: P901

art III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

State and Federally Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Departions, Property, and/or Equipment - P901 - 85 TPH Cupola furnace for molten iron production with afterburner and wet scrubber; this unit was installed in 1949 so an installation permit was not required; however, Chapter 31 major modifications of this emissions unit occurred in 1989 and 1998 that increased the production rate of the unit and resulted in emissions increases above PSD significance levels; the permittee has requested federally-enforceable operating restrictions on throughput of molten iron and hours of operation to ensure compliance with facility-wide emission rates protective of the National Ambient Air Quality Standards (NAAQS)

(NAAQS) Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Particulate emissions (PE) from the stack shall not exceed 0.207 pound per ton of molten iron produced; 17.60 pounds per hour.
	Sulfur dioxide (SO_2) emissions from the stack shall not exceed 0.06 pounds per ton of molten iron produced; 5.1 pounds per hour.
	Carbon monoxide (CO) emissions from the stack shall not exceed 0.51 pounds per ton of molten iron produced; 43.35 pounds per hour.
	Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	Best available control measures shall be implemented that are sufficient to minimize or eliminate emissions of fugitive dust.
	See A.I.2.c, d, and f below.
	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), OAC 3745-31-05(C), OAC rule 3745-31-10 through 20, and OAC rule 3745-21-08(D).

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plicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
AC rule 3745-31-10 through	PM ₁₀ emissions from the stack shall not exceed 0.161 pound per ton of molten iron produced; 13.67 pounds per hour.
·	PM ₁₀ emissions from the stack shall not exceed 22.14 tons based on a rolling, 12-month summation.
e i	See A.I.2.e
्र स्	Volatile organic compounds (VOC) emissions from the stack shall not exceed 0.27 pound per ton of molten iron produced; 22.95 pounds per hour.
	VOC emissions from the stack shall not exceed 37.13 tons based on a rolling, 12-month summation.
in the second se	Nitrogen oxides (NO_x) emissions from the stack shall not exceed 0.46 pound per ton of molten iron produced; 39.1 pounds per hour.
	${\rm NO_x}$ emissions from the stack shall not exceed 63.25 tons based on a rolling, 12-month summation.
OAC rule 3745-31-05(C)	PE from the stack shall not exceed 28.46 tons based on a rolling, 12-month summation.
	${\rm SO_2}$ emissions from the stack shall not exceed 8.25 tons based on a rolling, 12-month summation.
	CO emissions from the stack shall not exceed 70.13 tons based on a rolling, 12-month summation.
OAC rule 3745-17-07(A)	Visible particulate emissions from the stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
OAC rule 3745-21-08(D)	See A.I.2.a below.
OAC rule 3745-17-08	See A.I.2.b below.
OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31 05(A)(3).
OAC 3745-18-06(E)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31 05(A)(3).

Additional Terms and Conditions 2.

2.a Carbon monoxide gases generated during the operation of this emission unit shall be burned at 1300 degrees Fahrenheit for 0.3 seconds or greater in a direct-flame

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afterburner or equivalent device equipped with an indicating pyrometer which is positioned in the working area at the operator's eye level.

- 2.b This facility is not located in an area identified in Appendix A of OAC rule 3745-17-08. Therefore, the fugitive dust emissions are exempt from the visible particulate emission limitation and the reasonably available control measures established in OAC rule 3745-17-07 (B) and OAC rule 3745-17-08 (B), respectively.
- 2.c The permittee shall employ best available control measures on the cupola furnace for the purpose of minimizing or eliminating emissions of fugitive dust. In accordance with the permittee's application, the permittee shall maintain enclosures and vent emissions to a scrubber to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing additional measures to ensure compliance.
- 2.d The charge door to cupola shall remain closed during those times when the cupola is not being charged to minimize or eliminate visible emissions.
- 2.e As part of the BACT determination for PM₁₀, the cupola emissions must be vented to an operating scrubber with a control efficiency of at least 98.5%. Compliance with the control efficiency requirement shall be demonstrated by compliance with the short term PM₁₀ emission limits in Section A.I.1.
- 2.f Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

II. Operational Restrictions

- The maximum production rate for this emissions unit shall not exceed 275,000 tons of molten iron produced based on a rolling, 12-month summation; and
- 2. This emissions unit shall operate for no more than 20 hours per day.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to continuously monitor and record the static pressure drop, in inches of water, across the scrubber during operation of this emissions unit, including periods of startup and shutdown. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the static pressure drop, in inches of water, across the scrubber a minimum of once every two hours.

Whenever the monitored value for the static pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the

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investigation, and the findings and recommendations.

In response to each required-investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the static pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse shall be based upon the manufacturer's specifications until such time as any required emission testing is conducted.

This range is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range based upon information obtained during future emissions tests that demonstrate compliance with the allowable emissions rates for this emissions unit. In addition, approved revisions to the range will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

- The permittee shall install, operate and maintain a continuous temperature monitor and recorder which measures and records the exhaust gas temperature when the emission unit is in operation. Units shall be in degrees Fahrenheit. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
- The permittee shall collect and record the following information each day:
 - a. the hours per day this emissions unit is operated; and
 - all control equipment downtime, including start and end times of each incident, for the capture (collection) system, control devices, monitoring equipment, and hte associated emissions unit.
- 4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the

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abnormal emissions;

- the total duration of any visible emission incident; and
- any corrective actions taken to minimize or eliminate the visible emissions. d.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

- The permittee shall perform daily checks, during each of the following operational conditions: 1) when the emission unit is in normal operation, 2) when the by-pass cap is open during shut down, and 3) during any malfunction, when the weather conditions allow, 5. for any visible particulate emissions from the stack or bypass cap serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - the color of the emissions;
 - whether the emissions are representative of normal operations; a. b.
 - if the emissions are not representative of normal operations, the cause of the C. abnormal emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions. d. e.

The presence of water vapor in the scrubber plume does not constitute visible emissions.

- The permittee shall collect and record the following information each month for this 6. emissions unit:
 - the total weight of metal produced (in tons) in this emissions unit; and a.
 - the rolling, 12-month summation of metal produced, in tons (i.e., the metal produced rate for the current month added to the metal produced rate for the previous 11 b. calendar months).

Reporting Requirements ١٧.

- The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions 1. unit:
 - each period of time when the static pressure drop across the scrubber was outside a. of the acceptable range;

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- an identification of each incident of deviation described in (a) where a prompt b. investigation was not conducted;
- an identification of each incident of deviation described in (a) where prompt C. corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and
- an identification of each incident of deviation described in (a) where proper records d. were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

- The permittee shall submit deviation (excursion) reports which provide the following 2. information for each period during which the exhaust gas temperatures fall below the applicable limitations:
 - the date of the excursion: a.
 - the time interval over which the excursion occurred; b.
 - the temperature values during the excursion; C.
 - the cause(s) for the excursion; and d.
 - the corrective action which has been or will be taken to prevent similar excursions e. in the future.
- The permittee shall submit semiannual written reports that (a) identify all days during which 3. any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible emissions. These reports shall be submitted to the Ohio EPA, Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
- The permittee shall submit semiannual written reports that identify (a) all days during which 4. any visible particulate emissions were observed from the stack serving this emissions unit during each of the following operational conditions: 1) when the emission unit is in normal operation, 2) when the by-pass cap is open during shut down, and 3) during any malfunction, when the weather conditions allow and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Ohio EPA, Southeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
- The permittee shall notify the Ohio EPA, Southeast District Office of any monthly record 5. showing an exceedance of the rolling, 12-month production limitations specified in Section A.II.3. or any day during which the 20-hour limit on operations in Section A.II.3.b. is exceeded. A copy of such record shall be sent to the Ohio EPA, Southeast District Office within 30 days following the end of the calendar month in which the exceedance occurs.

Testing Requirements ٧.

Compliance with the emission limitations in section A.I.1 of these terms and conditions 1.

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shall be determined in accordance with the following methods:

a. Emission Limitation:

PE from the stack shall not exceed 0.207 pound per ton of molten iron produced; 17.60 pounds per hour.

Applicable Compliance Method:

The pounds per ton of molten iron produced emission limitation was established using the emission factor of 13.8 pounds of particulate emissions per ton of gray iron produced (1/95 AP-42 Table 12.10-3) multiplied by the 98.5% control efficiency which equals 0.207 pounds per ton of molten iron produced.

The pounds per hour emission limitation was established using the emission factor of 13.8 pounds of particulate emissions per ton of gray iron produced (1/95 AP-42 Table 12.10-3) multiplied by 85 tons of gray iron produced per hour (maximum operating rate) multiplied by the 98.5% control efficiency which equals 17.60 pounds per hour.

Compliance shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See Section A.V.2.

b. Emission Limitation:

 ${\rm SO_2}$ emissions from the stack shall not exceed 0.06 pound per ton of molten iron produced; 5.1 pounds per hour.

Applicable Compliance Method:

Compliance shall be determined according to test Methods 1 - 4, and 6 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See Section A.V.2.

c. Emission Limitation:

CO emissions from the stack shall not exceed 0.51 pound per ton of molten iron produced; 43.35 pounds per hour.

Applicable Compliance Method:

Compliance shall be determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See Section A.V.2.

d. Emission Limitation:

Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

Emission Limitation: e.

PM₁₀ emissions from the stack shall not exceed 0.161 pound per ton of molten iron produced; 13.67 pounds per hour.

Applicable Compliance Method:

The pounds per ton of molten iron produced emission limitation was established using the emission factor of 13.8 pounds of particulate emissions per ton of gray iron produced (1/95 AP-42 Table 12.10-3) multiplied by 77.7% (percent of particulate emission that are less than 10 microns per 1/95 AP-42 Table 12.10-9) by the 98.5% control efficiency which equals 0.161 pounds per ton of molten iron produced.

The pounds per hour emission limitation was established using the emission factor of 13.8 pounds of particulate emissions per ton of gray iron produced (1/95 AP-42 Table 12.10-3) multiplied by 77.7% (percent of particulate emission that are less than 10 microns per 1/95 AP-42 Table 12.10-9) multiplied by 85 tons of gray iron produced per hour (maximum operating rate) multiplied by the 98.5% control efficiency which equals 13.67 pounds per hour.

Compliance shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources", or 40 CFR Part 51, Appendix M, Method 201, or 40 CFR Part 51, Appendix M, 201A as appropriate. See Section A.V.2.

Emission Limitation: f.

VOC emissions from the stack shall not exceed 0.27 pound per ton of molten iron produced; 22.95 pounds per hour.

Applicable Compliance Method:

Compliance shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10(C) or an approved test protocol. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentrations, and on a consideration of the potential presence of interfering gases. See Section A.V.2.

Emission Limitation: g.

Nitrogen Oxides (NOx) emissions from the stack shall not exceed 0.46 pound per ton of molten iron produced; 39.1 pounds per hour.

Applicable Compliance Method:

Compliance shall be determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". See Section A.V.2.

Emissions Limitations: h.

PM₁₀ emissions from the stack shall not exceed 22.14 tons based on a rolling, 12-month summation.

VOC emissions from the stack shall not exceed 37.13 tons based on a rolling,

Facility ID: 0616010006 Emissions Unit ID: P901

12-month summation.

NOx emissions from the stack shall not exceed 63.25 tons based on a rolling, 12-month summation.

PE from the stack shall not exceed 28.46 tons based on a rolling, 12-month summation.

SO₂ emissions from the stack shall not exceed 8.25 tons based on a rolling, 12-month summation.

CO emissions shall not exceed 70.13 tons based on a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated based upon the following:

 $E = M \times EF / 2000 lbs/ton$

where:

E = the emission rate, in tons, based on a rolling, 12-month summation;

M = the molten iron production rate, in tons, during the rolling, 12-month period; and EF= the most recent emission factor for each pollutant, in pounds of pollutant per ton of molten iron, determined from the most recent emissions test.

Emission Limitation: ì.

Visible particulate emissions from the stack shall not exceed 20% opacity as a 6minute average, except as provided by the rule.

Applicable Compliance Method:

Compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

- The permittee shall conduct, or have conducted, emissions testing for this emissions unit 2. in accordance with the following requirements:
 - The emission testing shall be conducted within 3 months after issuance of the a. permit.
 - The emission testing shall be conducted to demonstrate compliance with the mass b. emission limitations for PE, PM₁₀, NOx, SO₂, CO and VOC.
 - The following test method(s) shall be employed to demonstrate compliance with the C. allowable mass emission rate(s):

For PE, Methods 1-5 of 40 CFR Part 60, Appendix A

For PM₁₀, Methods 1-4 and 201 or 201A of 40 CFR Part 51, Appendix M

For fugitive and stack visible emissions, Method 9 of 40 CFR Part 60, Appendix

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Facility ID: 0616010006 Emissions Unit ID:-P901

For NOx, Methods 1-4 and 7 or 7E of 40 CFR Part 60, Appendix A

For SO₂, Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A

For CO, Methods 1-4 and 10 of 40 CFR Part 60, Appendix A

For VOC, Methods 1-4 and 25 and/or 18 of 40 CFR Part 60, Appendix A

The VOC pounds per hour emission rate observed during the emissions test shall be calculated in accordance with OAC rule 3745-21-10(C)(7) where the average molecular weight of the VOC emissions equals 16. i.e., the VOC as carbon emission rate observed during testing shall be converted to the appropriate units by multiplying the VOC as carbon emission rate observed during testing by 16 and dividing by 12.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The testing shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southeast District Office.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA, Southeast District Office refusal to accept the results of the emission test(s).
- f. Personnel from the Ohio EPA, Southeast District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Southeast District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southeast District Office.

Miscellaneous Requirements

None

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Now Water Systems Co

PTI Application Number: 06-07432

Facility ID: 0616010006 Emissions Unit ID: P901

State Only Enforceable Section

Applicable Emissions Limitations and/or Control Requirements

The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - P901 - 85 TPH Cupola furnace for molten iron production with afterburner and wet scrubber; this unit was installed in 1949 so an installation permit was not required; however, Chapter 31 major modifications of this emissions unit occurred in 1989 and 1998 that increased the production rate of the unit and resulted in emissions increases above PSD significance levels; the permittee has requested federally-enforceable operating restrictions on throughput of molten iron and hours of operation to ensure compliance with facility-wide emission rates protective of the National Ambient Air Quality Standards (NAAOS)

(NAAQS) Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures	
None	None	1

- Additional Terms and Conditions
 None
- II. Operational Restrictions
 None
- III. Monitoring and/or Recordkeeping Requirements
 None
- IV. Reporting Requirements
 None
- V. Testing Requirements
 None
- VI. Miscellaneous Requirements
 None

where are nearly to the control of t					***
SOURCE REVIEW FORM B	ity ID: 0616010006				
Imper, 00-07-302					40000
ITY NAME Clow Water Systems		CITY/	TWP Coshocto	on ·	2000
LITY DESCRIPTION Grey iron for	undry	*			ALIANS SERVICE
CODE 3321 SCC CODE	30400331 shakeout vibrating table	EMISSIONS with baghouse; ad	UNIT ID F007 F007 F007 F007		· Section of the
SSIONS UNIT DESCRIPTION Job 076	03		g g		-
E INSTALLED 6/64 SIONS: (Click on bubble help for Air Qual	ty Descriptions)	10000	Post Al	lowable .	S
	COLUMN TO THE PROPERTY OF THE PROPERTY OF THE PARTY OF TH		Short Term	Tons Per Year	
	0.0075 gr/dscf;	0.48	0.0075 gr/dscf; 0.38 lb/hr	0.48	
ticulate Marters attainment attainment attainment	0.38 lb/hr 0.0075 gr/dscf; 0.26 lb/hr.	0.34	0:26 lb/hr	10.34	
für Diexide ganic : attainment	7.24b/h	9.0	7:2 b/hr	9:0	Section 1 to 1
Impounds Irogen Oxides Irbon Monoxide attainment	27(b/hr (F007/-8 E009)				
ther Air Toxics			<u> </u>		
PLICABLE FEDERAL RULES:			20110	200 20	
NESHAP? no	PSD?	Υ	OFFSET POLIC	51 (110	
ISPS (110		and the second second	OR THE DETERMIN	ATION?	usi. Vir Jisabat M
WHAT IS THE BAT DETER	RMINATION, AND WHA	T IS THE BASIS FO	JR THE BEILE		
V/A, administrative modification	9				
IS THIS SOURCE SUBJECT TO THE AIL OPTIONAL: WHAT IS THE CAPITAL CO	R TOXICS POLICY? OST OF CONTROL EQU	No	\$		
OPTIONAL: WHAT IS THE CAITTAL OF ONLY OF THE CAITTAL OF THE CAITTA	ntaiminants for which the	American Conferen	nce of Governmenta	I Industrial Hygienis	sts
IDENTIFY THE AIR CONTAMINANTS:			d		

SOURCERE	VIEW FORM B	
lumber: 06-07	432 Facili	ity ID: 0616010006
LITY NAME	Clow Water Systems	
LITY DESCRI	PTION Grey iron for	undry CITY/TWP Coshocton
	SCC CODE	30400370 EMISSIONS UNIT ID F014
CODE 3321		ure core machine (Laempe) with baghouse; administrative modification of PTI
SSIONS UNIT DE	No. 0	06-05183
'E INSTALLED	6/97	EMISSIONS: (Click on bubble help for Air Quality Descriptions)
		Actual Emissions Rate Parl Allowable
Pollutants	Air Quality Description	Short Term Rate Trons Per Year Short Term Trons Per Year Rate
		0.030 gr/dscf 2.03 0.030 gr/dscf 2.03
ticulate Matters	attainment rattainment	0.030.gr/dscf 2203 200.030.gr/dscf 2203 2203 200.030.gr/dscf
tur Dióxidé		3:25 lbs/hr 9:75 4 9:75 4 3:25 lbs/hr 9:75
npounds	attainment	
ogen Oxides		
rbon Monoxide ad		
ier Air Toxics		APPLICABLE FEDERAL RULES:
		·
3PS? no	NESHAP? no	PSD? Y OFFSET POLICY? no
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'A; administrative	3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3	
	SUBJECT TO THE AIR TO	
PTIONAL: WHAT	F IS THE CAPITAL COST (OF CONTROL EQUIPMENT? \$
XIC AIR CONTA ilo EPA's air toxic CGIH) has a listed	MINANTS s policy applies to contaimi d threshold limit value.	inants for which the American Conference of Governmental Industrial Hygienists
	DELING PERFORMED*?	YES X NO
DENTIFY THE AI	R CONTAMINANTS:	

SOURCEIRE	WIEW FORM B					
lumber: 06-07	7432 Facility	ID: 0616010006				
LITY NAME	Clow Water Systems (Co				
LITY DESCR	IPTION Grey iron four	ndry	CITY/T	WP Cos	shocton	
CODE 3321	SCC CODE	30400341	EMISSIONS U	INIT ID	F015	1:
SSIONS UNIT D	ESCRIPTION Found	ry shotblast with baghou	use			
E INSTALLED	1972	EMIS	SIONS: (Click on b	ubble help fo	or Air Quality [Descriptions)
Pollutants	Air Quality Description	Actual Emissi Short Term Rate	ons Rate		Pill Allowable In Ton	
ioulate/Matter	attainment	0.020 gr/dscf		.0.020.gr/d	SCI	
anic npounds: ogen Oxides						
pon Monoxide id:		A Company of the Comp				
ier. Air Foxics		35		APPL	ICABLE FED	ERAL RULES:
IPS? no	NESHAP? no	PSD? Y		OFFSET P	OLICY? no .	
VVE	TATEISTHEBATEDETERMIN	ATION AND WHATES	THE BASIS FOR		RMINATION?	ERAL RULES:
Α						mannetec
THIS SOURCE	E SUBJECT TO THE AIR TO	XICS POLICY?	No	\$.		
PTIONAL: WHA	AT IS THE CAPITAL COST (OF CONTROL EQUIPM	IENT?	Ψ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
CGIH) has a list	AMINANTS ics policy applies to contaimited threshold limit value.	nants for which the Ame	erican Conference YES		ental Industria	l Hygienists
IR TOXICS MO	ODELING PERFORMED*?		1E3		**************************************	*
ENTIFY THE	AIR CONTAMINANTS:					

V SOURCE RE	VIEW FORM B			
Number: 06-07	7432 Facilit	ty ID: 0616010006		;
ILITY NAME	Clow Water Systems	Co		
ILITY DESCRI	IPTION Grey iron fou	ındry	CITY/TWP C	Coshocton
CODE 3321	SCC CODE	30400341	EMISSIONS UNIT ID	F016
IISSIONS UNIT DI		Shakeout with baghou	Se	,
TE INSTALLED	1972	EMIS	SSIONS: (Click on bubble hel	p for Air Quality Descriptions)
Pollutants Iniculate Matter Mac InfunDioxide ganic ompounds trogen Oxides arbon Monoxide ad ther Air Toxics	Air Quality Description attainment NESHAP? no	Actual Emiss Short-PermiRates 0:0075 cr/dscf	iions Rate Jions Perayear ii R O 00075	PTI Allowable
		ATION AND MENT IS	THE BASIS FOR THE DETE	-RMINATION?
	AT IS THE BAT DETERMIN	ATIONS AND WHAT IS	THE BASIS FOR THE DET	TO MENTE SERVICE SERVI
1/A				
S THIS SOURCE	SUBJECT TO THE AIR TO	XICS POLICY?	No	
OPTIONAL: WHAT	IS THE CAPITAL COST O	F CONTROL EQUIPM	ENT? \$,
(CGIH) has a listed	s policy applies to contaimin I threshold limit value.	ants for which the Ame	rican Conference of Governr	
AIR TOXICS MOD	DELING PERFORMED*?	mar	YES X	NO -
IDENTIFY THE AI	R CONTAMINANTS:			<u>. </u>

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SOUR		VIEWE	ORM B	NGTO TO SERVE TO SERVE					
Number	r: 06-07	432	Faci	lity ID: 0616010	0006				
ILITY N	IAME	Clow \	Vater System	s Co				520	
ILITY D	ESCRI	PTION	Grey iron fo	oundry		CITY/T	WP Cos	shocton	
CODE	3321		SCC CODE	30400398	EN	MISSIONS UN	NIT ID .	K002	
SSIONS	UNIT DE	SCRIPT	ION Fitti	ngs painting opera	tion				
'E INSTA	ALLED	85	1965		FMISSIONS	· (Click on bu	bble help fo	r Air Quality D	escriptions)
Polluta	ns.	Alt Qua	alisy Desemption		Emissions R	aic	A STATE OF THE STA	Pili Allowable	网络西班牙斯斯斯斯斯
iculated	Matter	attainm	ent	0.551 lb/hr	0.74		0.551 lb/hr	0.74	
o ur Dioxi					0.74			- U.1.43	
anio neounds		attainm	ent	3.5 lb/gal x			3.5(lb/gali		
ogen ©x bon Mor d									
er Air I	oxics;								
					,		APPLI	CABLE FEDE	RAL RULES:
PS? no		1	NESHAP? no	PSI	D?Y		OFFSET PO	LICY? no	
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\									
THIS SO	DURCE S	SUBJECT	TO THE AIR T	OXICS POLICY?	-	No			
TIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$									
IC AIR CONTAMINANTS EPA's air toxics policy applies to contaiminants for which the American Conference of Governmental Industrial Hygienists GIH) has a listed threshold limit value.									
RTOXI	CS MOD	ELING P	ERFORMED*?	œs		YES	<u>X</u> N	O	
ENTIFY	THE AIF	R CONTA	MINANTS:						

V SOURCE REVIEW EORM/B	ity ID: 0616010006			
Number: 66 61 162		·	·	
Clow Water System		CITY/TWP	Coshocton	
CILITY DESCRIPTION Grey iron for	undry			
C CODE 3321 SCC CODE	30400398	EMISSIONS UNIT	ID K006	dity Descriptions) able Tons Per Year
112210112 01411 PEGG. III	painting operation			
ATE INSTALLED 1972; modified	6/93 ————————————————————————————————————	SSIONS: (Click on bubbl	e help for Air Qua	lity Descriptions)
	Actual Emiss		PTIAllow	<u>fable</u>
Pollutants Air Quality Description	i Short Term Rate	TonsiPerYear	Short Term Rate	Tons Per Year
		1.28		.28
articulate Matters attainment	0.79	1.28		17.28
M ₁₀			5 ib/gal	
ielfer Dioxide Organic attainment	3.5 lb/gal	3.	O III/gal	
Compounds		70.00		
Nitrogen Oxides		(A) (A) (A) (A)		The state of the s
Lead				
Other: Air Toxics			APPLICABLE	FEDERAL RULES:
		OF	FSET POLICY?	
NSPS? no NESHAP? no	PSD? Y			
, process	A LONG LANT 1	S THE BASIS FOR THE	DETERMINATION	DN2 757
WHAT IS THE BAT DETERM	MINATION AND WHAT I	VE limit are based on or	peration of a dry fi	Itration system
WHAT IS THE BAT DETERM Compliance with the mass emission rate for whenever this emissions unit is in operation	LE OLONYO IBINI ANIA	VE little die bassa.		
}	*	No		·
IS THIS SOURCE SUBJECT TO THE AIR	TOXICS POLICY?	No	 \$	
OPTIONAL: WHAT IS THE CAPITAL COS	ST OF CONTROL EQUIP	PMENT?		
TOXIC AIR CONTAMINANTS Ohio EPA's air toxics policy applies to conta	· · · · · · · · · · · · · · · · · · ·	merican Conference of C	Sovernmental Indi	ustrial Hygienists
Ohio EPA's air toxics policy applies to conta (ACGIH) has a listed threshold limit value.	iminants for which the Ai	110130001	NO.	
(ACGIH) has a listed timeshold with real		YES	<u>X</u> NO	
IDENTIFY THE AIR CONTAMINANTS:	•			

N SOURCE RE	<u>VIEW FORM B</u>				
Number: 06-07	432 Faci	lity ID: 0616010006	5		
CILITY NAME	Clow Water System	s Co			2
CILITY DESCRI	PTION Grey iron fo	oundry	CITY/	TWP Coshoo	ton
C CODE 3321	SCC CODE	30400305	EMISSIONS (JNIT ID PO2	20
AISSIONS UNIT DE	SCRIPTION Ann	ealing oven			
ATE INSTALLED	1977		userons (Click on t	oubble belo for Air	Quality Descriptions)
		Actual Emil	PARKET STREET,	了一个企业的企业的企业的企业的企业。	Wowable 4
iPollutants	Air Quality Description	Salah Sa	i frons (Per Year	Short Term	Tions Per Year
articulate Matter	attainment	0.72 lb/hr	2.17	0.72 lb/hr	2.17
M ₁₀ 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			0.47	0.057 lb/hr	0.17
ulfur Dioxide Irganic	attainment attainment	0,057 lb/hr 0,52,lb/hr	0.17	0:52 lb/hr	6 1657
ompounds Aris is		9.50 lbs/hr	28.49	9.50 lbs/hr	28.49
litrogen ©xides : arbon Monoxide	attainment attainment	7.98 lbs/hr	23.93.4	7.98 lbs/hr	23 93 /==
ead					
Other Air Foxics					
				APPLICAB	LE FEDERAL RULES:
NSPS? no	NESHAP? no	PSD? Y		OFFSET POLIC	Y? no
**	- 4	The state of the second property and the state of the sta			
WHA	TIS THE BAT DETERM	NATION, AND WHAT	ISTHE BASIS EOR	THEDETERMINA	
Compliance with the 569,760,000 cubic to	e mass emissions limits a feet (cf) based on a rolling	ind no VE limit based or g 12-month summation.	n use of only natural	gas at a usage rat	e shall not exceed
IS THIS SOURCE S	SUBJECT TO THE AIR T	OXICS POLICY?	No		
	IS THE CAPITAL COST		MENT?	\$	
OXIC AIR CONTAI					ndustrial Hygienists
AIR TOXICS MOD	ELING PERFORMED*?	. \	YES	<u>X</u> NO	
IDENTIFY THE All	R CONTAMINANTS:		1		7 2

/SOURCE REN	<u>/IEW.FORM.B</u>				
Number: 06-074	132 Facility	/ ID: 0616010006	·		. Signatura
ILITY NAME	Clow Water Systems (Co			
ILITY DESCRIF	PTION Grey iron four	ndry	СІТУЛ	TWP Coshocto	<u>n</u>
CODE 3321	SCC CODE	30400301	EMISSIONS U	INIT ID P901	
SSIONS UNIT DE	SCRIPTION 85 TPH	l Cupola furnace for r	—— nolten iron productic	n with afterburner a	nd wet scrubber
TE INSTALLED	1949; modified in and 1998	1989			
			SSIONS: (Click on b	ubble help for Air Que	
Pollutants	Air Quality Description	Actual Emiss Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
ticulate Matter	attainment	0.207 lb/ton of molten iron produced	28.46	0.207 lb/ton of molten iron produced	28.46
10	attainment	0:1614b/ton of molten iron produced	22.14	0.161 lb/ton of molten inon. produced:	22:14
ür Dioxide	attainment	0.06 lb/ton of molten iron produced	8.25	0.06 lb/ton of molten iron produced	8.25
ianic npounds 25	åttäinment	0.27 [b/fon of molten iron produced	37.13	0.27 lb/ton of molten from produced	37 13
ogen Oxides	attainment	0.46 lb/ton of molten iron produced	63.25	0.46 lb/ton of molten iron produced	63.25
bon Monoxide	attainment	0.51 lb/ton of molten fron produced	70.13	0.511b/ton of molten iron produced	7013
id ver: Air Toxics					
len Air Loxics				APPLICABLE	FEDERAL RULES:
PS? no	NESHAP? no	PSD? Y		OFFSET POLICY?	
				to the stable of the stable of	
-	T IS THE BAT DETERMINA			-	ON?
sed on research and	information from BACT, MA	CT, and similar type cu	pola recently issued pe	ermits	
THIS SOURCE S	UBJECT TO THE AIR TOX	ICS POLICY?	No		
TIONAL: WHAT	IS THE CAPITAL COST OF	CONTROL EQUIPM	IENT?	\$	
3IH) has a listed	policy applies to contaimina threshold limit value.	ants for which the Ame	erican Conference o	f Governmental Indu X NO	ustrial Hygienists
R TOXICS MOD	ELING PERFORMED*?		150		

<u>V SOURCE REVIEW 60</u>			
Number: 06-07432	Facility ID: 0616010006		
Clow W	ater Systems Co		
	Grey iron foundry	CITY/TWP Coshocton	
ENTIFY THE AIR CONTAMIN	ANTS:		y